

WEST

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Jan 31, 2003

DERWENT-ACC-NO: 2003-299536

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**TITLE:** Fuel cell humidifying system for electric vehicle, has bypass that is provided to cathode exhaust gas passage to allow portion of exhaust gas to detour around fuel gas humidifier

**INVENTOR:** KATAGIRI, T; SHIMANUKI, H ; SUZUKI, M

**PATENT-ASSIGNEE:**

| ASSIGNEE             | CODE |
|----------------------|------|
| HONDA MOTOR CO LTD   | HOND |
| HONDA GIKEN KOGYO KK | HOND |

**PRIORITY-DATA:** 2001JP-0213806 (July 13, 2001)

**PATENT-FAMILY:**

| PUB-NO            | PUB-DATE         | LANGUAGE | PAGES | MAIN-IPC   |
|-------------------|------------------|----------|-------|------------|
| JP 2003031245 A   | January 31, 2003 |          | 017   | H01M008/04 |
| US 20030012993 A1 | January 16, 2003 |          | 020   | H01M008/04 |

**APPLICATION-DATA:**

| PUB-NO          | APPL-DATE     | APPL-NO        | DESCRIPTOR |
|-----------------|---------------|----------------|------------|
| JP2003031245A   | July 13, 2001 | 2001JP-0213806 |            |
| US20030012993A1 | July 11, 2002 | 2002US-0193038 |            |

**INT-CL (IPC):** H01 M 8/04; H01 M 8/10

**ABSTRACTED-PUB-NO:** US20030012993A

**BASIC-ABSTRACT:**

**NOVELTY** - The exhaust gas flows from a cathode (1c) of a fuel cell (1) through a fuel gas humidifier (2) to an air humidifier (3). A bypass (7) is provided to the gas passage to allow a portion of exhaust gas to detour around the fuel gas humidifier.

**USE** - For electric vehicle.

**ADVANTAGE** - The bypass is provided to the cathode gas passage so as to avoid the fuel gas humidifier from regulating flow rate of exhaust gas, according to ratio of pressure loss in the gas, hence even when output of fuel cell rises, humidification level of fuel gas in fuel gas humidifier is reduced.

**DESCRIPTION OF DRAWING(S)** - The figure shows the general block diagram of fuel cell humidifying system.

fuel gas humidifier 2

air humidifier 3

bypass 7

CHOSEN-DRAWING: Dwg. 1/12

TITLE-TERMS: FUEL CELL HUMIDIFY SYSTEM ELECTRIC VEHICLE CATHODE EXHAUST GAS PASSAGE  
ALLOW PORTION EXHAUST GAS DETOUR FUEL GAS HUMIDIFY

DERWENT-CLASS: X16 X21

EPI-CODES: X16-C09; X21-A01F; X21-B01A;

SECONDARY-ACC-NO:

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